



Dart Aerospace Ltd.
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Tel (613) 632-5200

D139-799-015
Job Sheet 180199



Part No: D139-799-015

Job Qty: 2 ea

Part Name: Engine Wash



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 7/2/18

Job Tracking No:

Due Date: 7/13/18

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: IIN-D139-799 REV.O IPP Rev:B 11.07.04 new issue DD verf:JLM IPP REV:B AS PER ECN 11-598 11-06-05
JLM VERF BY:DD IPP Rev:C 11.09.27 PER CHG003 DD verf:EC IPP Rev:D 13.09.24 PER CHG005/ECN13-
579 DD verf:JLM IPP REV:E 16.10.13 AS PER IIN REV:L DD VERF:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	2 Ea	7/13/18	7/13/18	0.00	0.00	Start Up Stores/Pkg-1	6	JUL 13 2018
110	Packaging	2 pcs	7/13/18	7/13/18	0.00	0.00	Packaging1-1	1.88	AUG 07 2018
120	QC	2 pcs	7/13/18	7/13/18	0.00	0.00	QC4	3.88	3RB
130	Packaging	2 pcs	7/13/18	7/13/18	0.00	0.00	Packaging3-1	3.88	3RB
135	DC	2 pcs	7/13/18	7/13/18	0.00	0.00	DC	9.88	AUG 08 2018
140	QC21-FG	2 Ea	7/13/18	7/13/18	0.00	0.00	QC21	DAS	AUG 08 2018

Part Op 130 - Identify and pack for shipping as per PPP D139-799-015 PPP rev: _____

Descriptions: 135 - Photocopy bluefile & type labels per PPP D139-799-015 CHG006

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN3C3A	Bolt	8 Ea (4 ea)	90-Start up Operation	5019392
AN3C5A	Bolt	6 Ea (3 ea)	90-Start up Operation	507009
AN526-1032R16	Screw	8 Ea (4 ea)	90-Start up Operation	FM1361020
AN832-6J	Union	4 pcs (2 ea)	90-Start up Operation	5071348
AN924-6J	Nut	8 Ea (4 ea)	90-Start up Operation	5076605X2 5082734 X6
CB2000CRA3-28	Stud	6 Ea (3 ea)	90-Start up Operation	FM1364854 5099341X1
CB4022V3CR8	Anchor Nut	6 Ea (3 ea)	90-Start up Operation	5057426X1 5082911X2
CB91	Acrylic Adhesive, 3.5G	4 pcs (2 ea)	90-Start up Operation	FM136936
D4121-1	Hose Assembly	4 Ea (2 ea)	90-Start up Operation	5084176
D4121-3	Hose Assembly	2 Ea (1 ea)	90-Start up Operation	5084177 5084178
D4121-5	Hose Assembly	2 Ea (1 ea)	90-Start up Operation	5084179 5081243X1
D4131-041	Manifold Assembly	2 Ea (1 ea)	90-Start up Operation	5084949
D4131-043	Doubler Assembly	2 Ea (1 ea)	90-Start up Operation	508668X1 5084543X1
D4146-1	Fitting	4 Ea (2 ea)	90-Start up Operation	5081802X2 5094482
D4182-1	Fitting, Quick Disconnect	4 Ea (2 ea)	90-Start up Operation	5086366
D4384-1	Placard	2 Ea (1 ea)	90-Start up Operation	5064099
MS21043-3	Nut	20 Ea (10 ea)	90-Start up Operation	5062620
MS21919-WDG9	Clamp	18 Ea (9 ea)	90-Start up Operation	5034463
MS21919WCH16	Clamp	4 Ea (2 ea)	90-Start up Operation	5060424
MS21919WCH4	Clamp	4 Ea (2 ea)	90-Start up Operation	5086037
MS21919WCH9	Clamp	8 Ea (4 ea)	90-Start up Operation	5084600
NAS1149C0316R	Washer	12 Ea (6 ea)	90-Start up Operation	FM136511

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS				
Part No. _____		Rework ☐	Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐		
NCR No. _____		Scrap ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐		
		Use-as-is ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐		
		Suspected Unapproved ☐	Large Fab ☐	Composite ☐	Supplier ☐			
Date : _____	Step #: _____	QTY Effective : _____				MRB (QSI042) Approval		
Description Work Order Deviation			Disposition				Completed By	
							Lead hand / Supervisor Approval Verification	
							QC / QA Coordinator Approval	
Root Cause Environment ☐ No Re-verification ☐ Design ☐ Operator ☐ Doc/Data ☐ Offset/Setup ☐ Equip/Tooling ☐ Supplier ☐ Handling/Pre ☐ Training ☐ Material ☐ Use for Testing ☐ Internal Transport ☐ Poor Information ☐ Tribal Knowledge ☐ Rushing ☐ LOA ☐ Product Improvement ☐ Substation ☐ Process Improvement ☐ Past Expiry Date ☐ Manufacturing Process ☐ Misidentified ☐ Past Due ☐			FAULT C/ ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualif ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes				Positioned Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence	
OTHER : _____								

DART
 AEROSPACE
 Container No: S093597
 Part: D139-799-015
 Job No: 180199
 Serial No/Batch: S093597
 Revision: 0
 Inspector:
 Exp Date:
 Instructions:

Date: 07/19/18

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NAS1149C0332R	Washer	16 Ea (8 ea)	90-Start up Operation	5049837
NAS1149C0932R	Washer	8 Ea (4 ea)	90-Start up Operation	5056031
NAS43DD3-80N	Spacer	6 Ea (3 ea)	90-Start up Operation	PM137 847 0x4 5083 561

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	AN3C3A	8	328	0
	AN3C5A	6	2,030	0
	AN526-1032R16	8	49	0
	AN832-6J	4	14	0
	AN924-6J	8	26	0
	CB2000CRA3-28	6	4	0
	CB4022V3CR8	6	24	0
	CB91	4	34	0
	D4121-1	4	7	0
	D4121-3	2	9	0
	D4121-5	2	9	0
	D4131-041	2	4	0
	D4131-043	2	9	0
	D4146-1	4	2	0
	D4182-1	4	26	0
	D4384-1	2	8	0
	MS21043-3	20	1,125	0
	MS21919-WDG9	18	151	0
	MS21919WCH16	4	6	0
	MS21919WCH4	4	6	0
	MS21919WCH9	8	12	0
	NAS1149C0316R	12	302	0
	NAS1149C0332R	16	5,075	0
	NAS1149C0932R	8	184	0
	NAS43DD3-80N	6	34	0

Part Specifications

Specifications could not be found.

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Qty -015	Part Number	Description
X	D139-799-015	ENGINE WASH KIT
2	D4121-1	HOSE ASSEMBLY
1	D4121-3	HOSE ASSEMBLY
1	D4121-5	HOSE ASSEMBLY
1	D4131-041	MANIFOLD ASSEMBLY
1	D4131-043	DOUBLER ASSEMBLY
2	D4146-1	FITTING
2	D4182-1	FITTING, QUICK DISCONNECT
1	D4384-1	PLACARD
3	AN3C5A	BOLT (or NAS6603-4)
4	AN3C3A	BOLT
4	AN526-1032R16	SCREW
2	AN832-6J	UNION (or AN837-6J)
4	AN924-6J	NUT
10	MS21043-3	NUT
4	NAS1149C0932R	WASHER (or AN960C916L)
8	NAS1149C0332R	WASHER (or AN960C10L)
6	NAS1149C0316R	WASHER (or AN960C10LL)
3	NAS43DD3-80N	SPACER
9	MS21919WDG09	CLAMP (or AS21919WDG09)
2	MS21919WCH4	CLAMP (or AS21919W CH4)
4	MS21919WCH9	CLAMP (or AS21919W CH9)
2	MS21919WCH16	CLAMP (or AS21919W CH16)
3	CB2000CRA3-28	STUD (or A366A3E30C)
3	CB4022V3CR8	ANCHOR NUT (or AW001TL3A08)
2	CB91	3.5g ACRYLIC ADHESIVE KIT

REFERENCE ONLY

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Revision: 0

Date: 18.01.09

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Description: ENGINE WASH[illegible]